

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 84-75

WASTE DISCHARGE REQUIREMENTS FOR:

FAIRCHILD CAMERA AND INSTRUMENT CORPORATION DISCRETE DIVISION,
SAN RAFAEL,
MARIN COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board) finds that:

1. Fairchild Camera and Instrument Corporation Discrete Division, hereinafter called the discharger, owns a 10 acre site in San Rafael, located at 4300 Redwood Highway. (See Site Map, Attachment A). The discharger manufactures discrete integrated electronic circuits. Gallinas Creek, a tributary of San Francisco Bay, is located adjacent to the southern border of the facility.
2. The discharger has submitted a Report of Waste Discharge, dated October 9, 1984 and supporting technical reports, dated February, 1984 and August, 1984. The reports include ground water investigation data and contain a remedial action plan.
3. The site investigations found soil and shallow groundwater contaminated with organic solvents and heavy metals. This was apparently the result of spillage or leaks at the facility from chemical handling practices. Site investigations also revealed that the shallow groundwater is underlain by thick layers of impermeable bay mud. Although most of the contamination presently exists within the site boundaries, some groundwater and soils contamination with organic solvents have been found at the site's northern border in a narrow area. The discharger is presently studying the extent of contamination outside the facility's northern border.
4. The remedial action plan proposed by the discharger consists of containment of the contaminants located within the facility boundaries, and an internal groundwater treatment system. This includes a slurry wall keyed into the bay mud along the perimeter of the site and the installation of a groundwater extraction, treatment and reinjection trench system. The groundwater treatment system will remove metals through chemical precipitation, pH adjustment and sedimentation. The volatile organics will be removed by air stripping. The remedial action plan for the facility site is acceptable to the Board.

5. The Board adopted a revised Water Quality Control Plan (Basin Plan) for the San Francisco Bay Region on July, 21, 1982. The Basin Plan contains water quality objectives for Gallinas Creek and San Francisco Bay.
6. The beneficial uses of Gallinas Creek and San Francisco Bay include:
 - a. Recreation
 - b. Fish migration and habitat
 - c. Habitat and resting for waterfowl and migratory birds
 - d. Industrial water supply
 - e. Esthetic enjoyment
7. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
8. This project constitutes a minor modification to land and such actively is thereby exempt from the provisions of the California Environmental Quality Act (CEQA) in accordance with Section 15304 of the Resource Agency Guidelines.
9. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERD, that Fairchild Camera and Instrument Corporation Discrete Division, San Rafael, in order to meet the provisions contained in Division 7 of the California Water Code and the regulations adopted thereunder, shall comply with the following:

A. Prohibitions

1. The discharge of wastes through surface runoff or through subsurface transport to surface waters of the State is prohibited.
2. Bypassing of wastewater from the wastewater treatment system to waters of the State is prohibited. If bypassing should occur, the discharger shall notify this Board's Executive Officer as soon as possible.

B. Specifications

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. Groundwater extracted for treatment and reinjection discharge shall receive the best practicable treatment prior to reinjection.
3. Vertical and lateral hydraulic continuity with adjacent surface waters shall be prevented by the presence of a natural or artificial impervious barrier having a permeability of 1×10^{-6} cm/sec or less.

C. Provisions

1. The discharger shall commence construction of the approved remedial action plan measures immediately upon adoption of this Order. The discharger shall complete construction and commence groundwater cleanup in the shortest reasonable period of time. A report containing the time schedule for completion of construction and commencement of the groundwater cleanup system shall be submitted within 30 days after adoption of this Order.
2. The discharger shall report to the Board annually, with the first report due November 1, 1985, on effectiveness of the groundwater cleanup program. The report shall discuss the best practicable treatment of the extracted groundwater, the status of the underground waste plume and the expected results of future extractions.
3. The discharger shall report on this status of groundwater contamination in the area north of the site, as described in Finding 3. This report shall be submitted by June 1, 1985 and contain information on the lateral and vertical extent of contamination and a discussion of the alternative remedial action measures. The Board will review the findings of this report and amend this Order accordingly.
4. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.
5. The discharger shall comply with all sections of this Order immediately upon adoption.

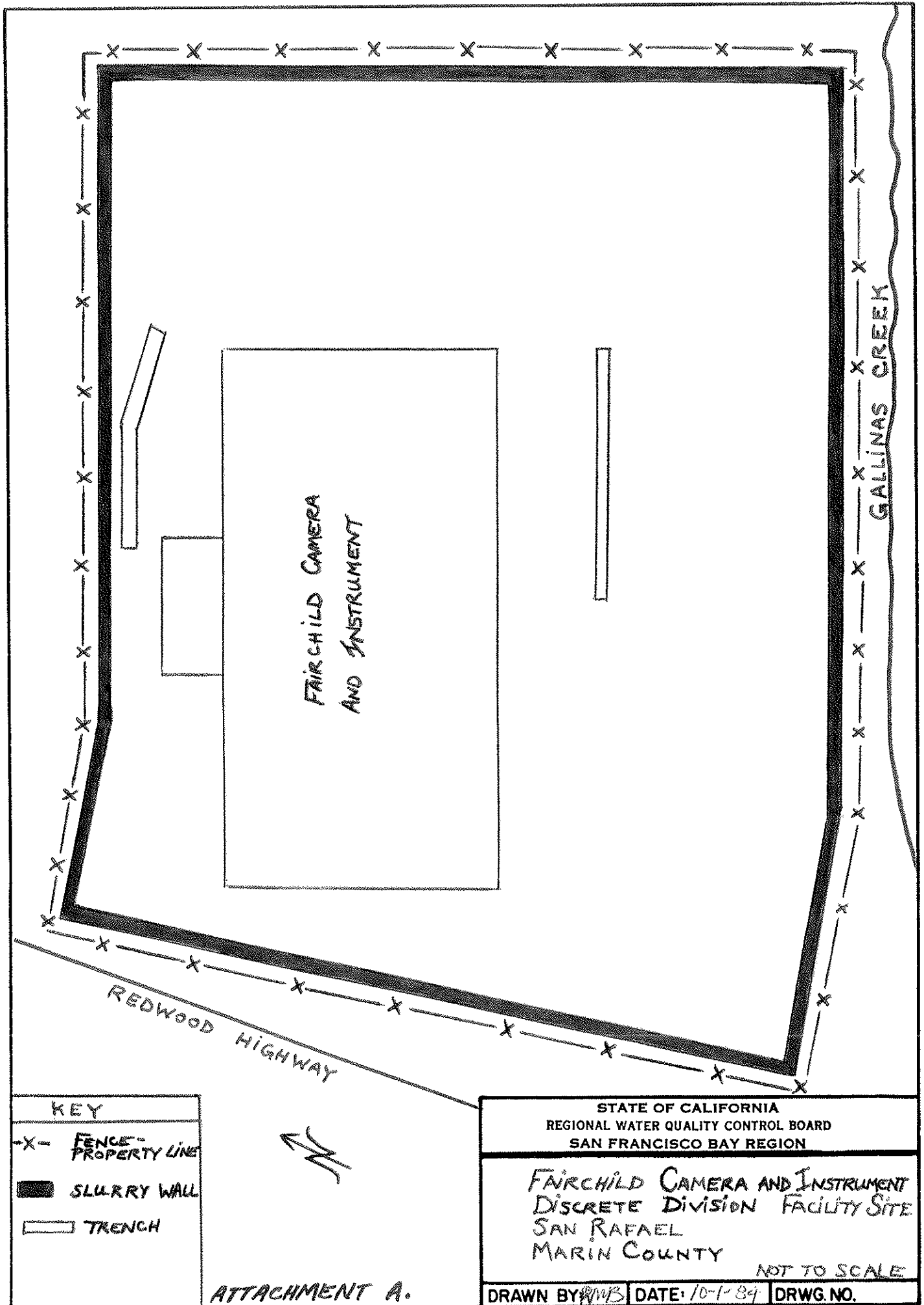
6. The discharger shall permit the Regional Board:
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept,
 - b. Access to copy any records required to be kept under terms and conditions of this Order,
 - c. Inspection of monitoring equipment or records, and
 - d. Sampling of any discharge.
7. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to this Board.

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on October 17, 1984.

ROGER B. JAMES
Executive Officer

Attachments:

- A. Site Map
- B. Self-Monitoring Program



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

Fairchild Camera and Instrument Corporation

Discrete Division

San Rafael

Marin County

ORDER NO. 84-75

CONSISTS OF

PART A

PART A

I. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are:

- (1) To document compliance with waste discharge requirements and prohibitions established by this Regional Board,
- (2) To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge.

II. DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING, ANALYSIS AND OBSERVATIONS

A. Outside Slurry Wall Wells

- | | | | | |
|----|---------------------|-----------|-----------------------|---------------------------------|
| 1. | Wells 1 A and B | Quarterly | TCE
TCA
DCE-1,1 | CHLOROFORM
XYLENE
DCE-1,2 |
| 2. | Wells 4 A and B | Quarterly | (Same as in A.1.) | |
| 3. | Wells C 26 and C 27 | Monthly | (Same as in A.1.) | |

B. Inside Slurry Wall Wells

- | | | | | |
|----|--|-----------|------------------------------|---------------------------------|
| 1. | Wells 2 A and B | Quarterly | TCE
TCA
DCE-1,1
PCE | CHLOROFORM
XYLENE
DCE-1,2 |
| 2. | Wells 3 A and B | Quarterly | (Same as in B.1.) | |
| 3. | Well E-2 | Quarterly | (Same as in B.1.) | |
| 4. | Recharge/Extraction
Wells R-1, R-2 and
R-3 | Monthly | (Same as in B.1.) | |
| 5. | North and South
Trenches | Monthly | (Same as in B.1.) | |

III. REPORT TO BE FILED WITH THE REGIONAL BOARD

1. Violations of Requirements

In the event the discharger is unable to comply with the conditions of the waste discharge requirements and prohibitions due to:

- (a) maintenance work, power failures, or breakdown of waste treatment equipment, or
- (b) accidents caused by human error or negligence, or
- (c) other causes such as acts of nature,

The discharger shall notify the Regional Board Office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the noncompliance and shall indicate what steps were taken to prevent the problem from recurring.

In addition, if the noncompliance caused by items (a), (b), or (c) above is with respect to any of the effluent limits, the waste discharger shall promptly accelerate this monitoring program to analyze the discharge at least once every day for those constituents which have been violated. Such daily analysis shall continue until such time as the effluent limits have been attained, or until such time as the Executive Officer determines to be appropriate. The results of such monitoring shall be included in the regular Self-Monitoring Report

2. Bypass Reports

Bypassing reporting shall be an intergral part of regular monitoring program reporting, and a report on bypassing of untreated waste or bypassing of any ponded water shall be made which will include cause, time and date, duration and estimated volume of waste bypassed, method used in estimating volume, and persons (including Marin County Health) notified, for planned and/or unplanned bypasses. Notification to the Regional Board shall be made immediately by phone, followed by written correspondence within 15 days if a bypass occurs.

3. Self-Monitoring Reports

Written reports shall be filed regularly for each calendar quarter and submitted by the fifteenth day of the following month. The reports shall be comprised of the following.

a. Letter of Transmittal

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken or planned for correcting violations. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. Monitoring reports and the letter transmitting reports shall be signed either by a principal executive officer, or other duly authorized employee. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

b. Data Results

All results observed or analyzed in II.A. and II.B. shall be submitted in the quarterly self-monitoring report.

The discharger shall file a written report at least 15 days prior to advertising for bid on any construction project which would cause or aggravate the discharge of waste in violation of requirements; said report shall describe the nature, costs, and scheduling of all action necessary to preclude such discharge.

I, Roger B. James, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 84-75.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

ROGER B. JAMES
Executive Officer

Effective Date _____

Attachement: Diagram of sampling locations

